## What is claimed is:

1. A torque limiting tool comprising:

an inner handle comprising a tool coupling portion and at least one radially oriented slot;

at least one interface member located in the radially oriented slot, the interface member comprising an elongated surface generally oriented along a longitudinal axis of the inner handle;

a biasing assembly located in a biasing assembly aperture that provides a longitudinal biasing force to bias the interface member radially outward; and

an outer handle having an inner surface limiting radial displacement of the interface member.

- The tool of claim 1 wherein the tool coupling portion
   comprises a tool receiving aperture extending along the longitudinal axis of the inner handle.
  - 3. The tool of claim 1 wherein the tool coupling portion comprises an outer surface of the inner handle.

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- 4. The tool of claim 1 comprising a plurality of tools each adapted to releasably engage with the tool coupling portion.
- 5. The tool of claim 1 wherein the biasing assembly aperture is connected to the radially oriented slot.
  - 6. The tool of claim 1 wherein a proximal end of the biasing assembly aperture comprises a threaded portion.

- 7. The tool of claim 1 wherein the radially oriented slots comprise at least one angled surface.
- 8. The tool of claim 1 wherein the interface member comprises at least one surface oriented toward the biasing assembly aperture at an acute angle with respect to the longitudinal axis.
  - 9. The tool of claim 1 wherein the elongated surface of the interface member is generally flush with an outer surface of the inner handle when the longitudinal biasing force is removed.
    - 10. The tool of claim 1 wherein the biasing force displaces the elongated surface of the interface member above an outer surface of the inner handle.

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- 11. The tool of claim 1 wherein the elongated surface is at least about 0.5 inches long.
- 12. The tool of claim 1 wherein the elongated surface is about 20 1.0 inch long.
  - 13. The tool of claim 1 wherein the elongated surface comprises a curvilinear shape.
- 25 14. The tool of claim 1 wherein the elongated surface comprises a planar portion.
  - 15. The tool of claim 1 wherein the biasing assembly comprises a spring.

- 16. The tool of claim 1 wherein the longitudinal biasing force is adjustable.
- 5 The tool of claim 1 wherein the biasing assembly comprises:

a biasing member comprising a leading edge engaged with the interface member;

a retainer engaged with the proximal end of the inner handle; and
a spring compressively interposed between the biasing member and
the retainer.

- 18. The tool of claim 16 wherein the leading edge of the biasing member form an acute angled with respect to the longitudinal axis.
- 19. The tool of claim 16 wherein the biasing member is slidably engaged with the biasing assembly aperture.
- 20. The tool of claim 16 wherein the retainer is threadably engaged with a proximal end of the inner handle.

- 21. The tool of claim 16 wherein the location of the retainer relative to a proximal end of the inner handles is adjustable.
- 25 22. The tool of claim 1 wherein the inner surface of the outer handle comprises a plurality of detents.
  - 23. The tool of claim 1 wherein the inner surface of the outer handle comprises a curvilinear surface.

- 24. The tool of claim 1 wherein the inner surface of the outer handle comprises a generally smooth surface.
- 5 25. The tool of claim 1 wherein the inner surface of the outer handle comprises an asymmetrical structure.
  - 26. The tool of claim 1 wherein the outer handle substantially surrounds the inner handle.

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- 27. The tool of claim 1 wherein the interface member is displaced radially inward when a torque applied to the tool coupling portion exceeds a threshold value.
- 15 28. The tool of claim 1 wherein the inner handle rotates within the outer handle when a torque applied to the tool coupling portion exceeds a threshold value.
- 29. The tool of claim 28 wherein the rotation of the inner handle relative to the outer handle is bi-directional.
  - 30. The tool of claim 1 wherein a torque applied to the inner handle in a first direction that exceeds a threshold value causes the inner handle to rotate in the first direction within the outer handle, and a torque applied to the inner handle in a second direction that exceeds the threshold value does not substantially rotate the inner handle within the outer handle.
    - 31. The tool of claim 1 comprising:

an elongated outer handle having a primary opening to a central aperture adapted to receive the inner handle; and

a cap adapted to retain the inner handle in the outer handle.

- 5 32. The tool of claim 1 wherein one or more of the inner handle, the outer handle and the interface members comprises metal, ceramic, polymeric materials, a composite, or a combination thereof.
- 33. The tool of claim 1 wherein the biasing assembly is located in a biasing assembly aperture.
  - 34. The tool of claim 33 wherein the biasing assembly aperture is located in the inner handle.
  - 35. A torque limiting tool comprising:

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an inner handle comprising a tool coupling portion and at least one radially oriented slot;

at least one interface member located in the radially oriented slot, the interface member comprising an elongated surface generally oriented along a longitudinal axis of the inner handle;

a biasing means located in a biasing assembly aperture for providing a longitudinal biasing force to bias the interface member radially outward; and

an outer handle having an inner surface limiting radial displacement of the interface member.

36. An adjustable torque limiting tool comprising:
an inner handle comprising a tool coupling portion at a distal end
and a biasing assembly aperture at a proximal end, the inner handle including at

least one radially oriented slot located between the biasing assembly aperture and the distal end;

at least one interface member located in the radially oriented slot, the interface member comprising an elongated surface generally oriented along a longitudinal axis;

a biasing assembly located in the biasing assembly aperture providing a longitudinal biasing force that biases the interface member radially outward; and

an outer handle having an inner surface limiting radial displacement of the interface member.

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37. A method of limiting torque transmission comprising the steps of:

generating a longitudinal biasing force along a longitudinal axis of an inner handle;

coupling the longitudinal biasing force to one or more interface members, the longitudinal biasing force biasing a longitudinally oriented elongated surface on the interface members radially outward;

restraining the radial movement of the interface members in an outer handle surrounding at least a portion of the inner handle; and permitting the inner handle to rotate relative to the outer handle when a torque applied to the inner handle exceeds a threshold level.

- 38. The method of claim 37 comprising coupling one of a plurality of tools to the inner handle.
  - 39. The method of claim 37 comprising adjusting the longitudinal biasing force.

- 40. The method of claim 37 comprising displacing the elongated surface above an outer surface of the inner handle.
- 41. The method of claim 37 comprising displacing the interface 5 member radially inward when a torque applied to the inner handle exceeds a threshold value.
- 42. The method of claim 37 comprising rotating the inner handle within the outer handle when a torque applied to the inner handle exceeds a threshold value.
  - 43. The method of claim 42 wherein the rotation of the inner handle relative to the outer handle is bi-directional.
- 15 44. The method of claim 37 comprising the steps of:
  applying a torque to the inner handle in a first direction that
  exceeds a threshold value so that the inner handle rotates within the outer handle
  in the first direction; and

applying a torque to the inner handle in a second direction that

20 exceeds the threshold value without permitting the inner handle to substantially rotate in the second direction within the outer handle.

- 45. The method of claim 37 comprising the step of:
  removing a spring that provides the longitudinal biasing force from
  the inner handle; and
  - inserting a different spring having a different spring constant into the inner handle.